Course of Study Water and Environmental Engineering (Study Cohort w20)

Sample course plan B Master Water and Environmental Engineering (WUMS)
Specialisation Environment

Legend

Core qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

LP	Semester 1	Form	Hrs/wk	Semester 2	Form	Hrs/wk	Semester 3	Form	Hrs/wk	Semester 4	Form	Hrs/wk
1	**Biology, Geology and Chemistry**			**Electricity Generation from Wind and Hydro Power (part 1)**			**Electricity Generation from Wind and Hydro Power (part 2)**			**Master Thesis**		
	Environmental Analysis	VL	2	Wind Turbine Plants	VL	2	Sustainability Management	VL	2			
	Geology and Soil Science	VL	2	Wind Energy Use - Focus Offshore	VL	1	**Study Work Environment**					
2	Biology	VL	2	Hydro Power Use	VL	1						
3												
4												
5												
6				**Waste Treatment and Solid Matter Process Technology**								
7	**Sustainability and Risk Management**			Solid Matter Process Technology for Biomass	VL	2	**Waste Treatment Technologies**					
8	Environment and Sustainability	VL	2	Thermal Waste Treatment	VL	2	Biological Waste Treatment	PBL	3			
9	Safety, Reliability and Risk Assessment	SE	2	Thermal Waste Treatment	HÜ	1	Waste and Environmental Chemistry	PR	2			
10				**Management of Surface Water**								
11				Modelling of Flow in Rivers and Estuaries	VL	3	**Groundwater**					
12				Nature-Oriented Hydraulic Engineering / Integrated Flood Protection	PBL	2	Geohydraulic and Solute Transport	VL	2			
13	**Water Protection**						Geohydraulic and Solute Transport	UE	1			
14	Water Protection and Wastewater Management	VL	3	**Soil and Groundwater Contamination**			Simulation in Groundwater Hydrology	VL	1			
15				NAPL in Soil and Groundwater	VL	1	Simulation in Groundwater Hydrology	UE	2			
16				NAPL in Soil and Groundwater	UE	2	**Water Resources and -Supply**					
17	Water Protection and Wastewater Management	PS	3	Contamination and Remediation	PS	3	Chemistry of Drinking Water Treatment	VL	2			
18							Chemistry of Drinking Water Treatment	HÜ	1			
19	**Environmental Protection and Management**						Water Resource Management	VL	2			
20							Water Resource Management	UE	1			
21	Health, Safety and Environmental Management	VL	2									
22												
23	Health, Safety and Environmental Management	UE	1									
24	Integrated Pollution Control	VL	2									
25	**Wastewater Treatment and Air Pollution Abatement**											
26												
27	Air Pollution Abatement	VL	2									
28	Biological Wastewater Treatment	VL	2									
29												
30												
	Business & Management (from catalogue) - 6LP											
	Non-technical Courses for Master (from catalogue) - 6LP											

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.